## IN THE CLAIMS

Please amend the claims as follows. Presented below is a complete listing of claims in the revised format showing markings as set forth by the U.S. Patent and Trademark Office on January 31, 2003:

1. (Currently Amended) In a digital imaging system, a method for distributed digital image processing, the method comprising:

recording luminosity information at a first device, for representing an image that has been digitally captured at the first device;

without performing color interpolation at the first device, generating compressed luminosity information at the first device by applying a wavelet transform compression to individual bit planes that comprise the luminosity information, followed by applying quantization and compression to the luminosity information;

packaging said compressed luminosity information with header information identifying the individual bit[[-]] plane[[s]];

transmitting said compressed luminosity information to a second device in a wireless manner using a packet-based communication protocol;

restoring said luminosity information from said compressed luminosity information at the second device; and

converting said luminosity information at the second device into a color image, including performing color interpolation at the second device.

## 2. (Canceled)

- 3. (Original) The method of claim 1, wherein said luminosity information comprises light-level information for representing an image that has been digitally captured at the first device.
  - 4. (Original) The method of claim 1, wherein said generating step includes: applying generic binary compression to said compressed luminosity information

at the first device.

- 5. (Original) The method of claim 4, wherein said step of applying generic binary compression includes applying run-length encoding.
- 6. (Original) The method of claim 4, wherein said step of applying generic binary compression includes applying Huffman coding.
  - 7. (Original) The method of claim 1, wherein said restoring step includes: reversing said compression that occurred at the first device.
  - 8 9. (Canceled)
- 10. (Original) The method of claim 1, wherein said step of converting said luminosity information into a color image includes:

interpolating color information for the image from said luminosity information.

- 11. (Original) The method of claim 10, wherein said interpolating step includes: apply a YUV transformation to said luminosity information at the second device for converting said luminosity information into a color image in YUV color space.
- 12. (Original) The method of claim 10, wherein said step of converting said luminosity information into a color image further includes:

converting the color image into a standard file format at the second device.

- 13. (Original) The method of claim 12, wherein said standard file format comprises a JPEG file format.
- 14. (Original) The method of claim 12, wherein said step of converting said luminosity information into a color image further includes:

applying JPEG compression to the color image at the second device.

15. (Original) The method of claim 1, wherein said step of transmitting said compressed luminosity information to a second device includes:

transmitting said compressed luminosity information from a digital camera to a computer using a packet-based communication protocol.

16. (Original) The method of claim 15, wherein said step of transmitting said compressed luminosity information from a digital camera to a computer using packet-based communication protocol includes:

selectively connecting the digital camera to a cellular phone for establishing a wireless communication session with the computer.

- 17. (Original) The method of claim 1, wherein said second device comprises a computer with connectivity to the Internet and wherein said method further includes making the color image available to multiple users.
- 18. (Original) The method of claim 1, wherein said transmitting step includes: transmitting said compressed luminosity information by first transmitting a lower-quality representation of the image captured at the first device.
- 19. (Original) The method of claim 18, wherein said lower-quality representation of the image is converted into a higher-quality representation at a later point in time.
- 20. (Original) The method of claim 18, wherein said lower-quality representation of the image is converted into a higher-quality representation by synchronizing said lower-quality representation with said higher-quality representation.
- 21. (Currently Amended) In a digital imaging system, a method for deferring digital image processing, the method comprising:

recording sensor information from an image sensor at a first device, for representing an image that has been recorded at the image sensor of the first device;

compressing said sensor information prior to color processing by applying a transformation compression to individual bit planes that comprise the sensor

information, for generating compressed sensor information at the first device;

packaging said compressed sensor information with header information identifying the individual bit[[-]]plane[[s]];

without having performed color processing at the first device, transmitting said compressed sensor information to a second device in a wireless manner using a packet-based communication protocol; and

decompressing said compressed sensor information at the second device, whereupon said sensor information may thereafter be processed into a color image.

## 22. (Canceled)

- 23. (Original) The method of claim 21, wherein said sensor information comprises light-level information for representing an image that has been digitally recorded at the first device.
- 24. (Previously Presented) The method of claim 21, wherein said compression step includes:

applying a wavelet transform to individual bit planes that comprise the sensor image; and

applying compression to the transformed sensor image, to create said compressed sensor information at the first device.

- 25. (Original) The method of claim 24, wherein said step of applying compression to the transformed sensor image includes:
  - applying compression using run-length encoding.
- 26. (Original) The method of claim 24, wherein said step of applying compression to the transformed sensor image includes:

applying compression using Huffman coding.

27. (Original) The method of claim 24, wherein said decompression step includes:

reversing said wavelet transform that occurred at the first device.

28 - 29. (Canceled)

- 30. (Original) The method of claim 21, further comprising: converting said sensor information into a color image by interpolating color information for the image from said sensor information.
- 31. (Original) The method of claim 30, wherein said converting step includes: apply a YUV transformation to said sensor information at the second device for converting said sensor information into a color image in YUV color space.
  - 32. (Original) The method of claim 30, wherein said converting step includes: converting the color image into a standard file format at the second device.
- 33. (Original) The method of claim 32, wherein said standard file format comprises a JPEG file format.
  - 34. (Original) The method of claim 32, wherein said converting step includes: applying JPEG compression to the color image at the second device.
- 35. (Original) The method of claim 21, wherein said step of transmitting said compressed sensor information to a second device includes:

transmitting said compressed sensor information from a digital camera to a computer in a wireless manner using a communication protocol.

36. (Original) The method of claim 35, wherein said step of transmitting said compressed sensor information from a digital camera to a computer includes:

selectively connecting the digital camera to a cellular phone for establishing a wireless communication session with the computer.

37. (Original) The method of claim 21, wherein said second device comprises a

computer with connectivity to the Internet and wherein said method further includes making the color image available to multiple users.

- 38. (Original) The method of claim 21, wherein said transmitting step includes: transmitting said compressed sensor information by first transmitting a lower-quality representation of the image recorded at the first device.
- 39. (Original) The method of claim 38, wherein said lower-quality representation of the image is converted into a higher-quality representation at a later point in time.
- 40. (Original) The method of claim 38, wherein said lower-quality representation of the image is converted into a higher-quality representation by synchronizing said lower-quality representation with said higher-quality representation.
- 41. (Previously Presented) An imaging system providing deferred image processing, the system comprising:

an imager having a sensor for recording luminosity information for a visual image captured by the imager, said luminosity information comprising luminosity values recorded by the sensor;

a compressor module for compressing said luminosity information by applying a transformation compression to individual bit planes that comprise the luminosity information, for generating compressed luminosity information at the imager without having performed color processing;

a wireless communication link for transmitting said compressed luminosity information to a target device in a wireless manner using a packet-based communication protocol; and

a decompression module for decompressing said compressed luminosity information at the target device, whereupon said sensor information may thereafter be processed into a color image.

## 42. (Canceled)

- 43. (Original) The system of claim 41, wherein said luminosity information comprises brightness information for representing an image that has been digitally captured at the imager.
- 44. (Original) The system of claim 41, wherein said compression module includes:

a generic binary compression module for compressing said luminosity information at the first device.

- 45. (Original) The system of claim 44, wherein said generic binary compression module applies run-length encoding.
- 46. (Original) The system of claim 44, wherein said generic binary compression module applies Huffman coding.
- 47. (Original) The system of claim 44, further comprising a generic binary decompression module for reversing generic binary compression that has been applied at the imager.
  - 48 49. (Canceled)
- 50. (Original) The system of claim 41, wherein said target device includes: an interpolation module for interpolating color information for the image from said luminosity information.
- 51. (Original) The system of claim 50, wherein said interpolation module applies a YUV transformation to said luminosity information at the target device for converting said luminosity information into a color image in YUV color space.
- 52. (Original) The system of claim 41, wherein said target device further includes:

a compression module for converting the color image into a standard

compressed file format at the target device.

- 53. (Original) The system of claim 52, wherein said standard compressed file format comprises a JPEG file format.
- 54. (Original) The system of claim 52, wherein said compression module of said target device includes a JPEG module for applying JPEG compression to the color image at the target device.
- 55. (Original) The system of claim 41, wherein said imager comprises a digital camera, wherein said target device comprises a computer, and wherein said communication link is coupled to a cellular phone device for transmitting said compressed luminosity information from said digital camera to said computer in a wireless manner using a communication protocol.
- 56. (Original) The system of claim 55, wherein said communication link is selectively coupled to the cellular phone for establishing a wireless communication session between the digital camera and the computer.
- 57. (Original) The system of claim 41, wherein said target device comprises a computer with connectivity to the Internet, which provides access to the color image to multiple users.
- 58. (Original) The system of claim 51, wherein said communication link transmits said compressed luminosity information by first transmitting a lower-quality representation of the image captured at the imager.
- 59. (Original) The system of claim 58, wherein said lower-quality representation of the image is converted into a higher-quality representation at a later point in time.
- 60. (Original) The system of claim 58, wherein said lower-quality representation of the image is converted into a higher-quality representation by synchronizing said

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lower-quality representation with said higher-quality representation.

- 61. (Original) The system of claim 41, wherein said imager comprises a selected one of a digital camera, a digital camcorder, and a closed circuit surveillance camera.
- 62. (Original) The system of claim 41, wherein said target device comprises a desktop computer.
- 63. (Original) The system of claim 41, wherein said target device comprises a server computer.
- 64. (Original) The system of claim 41, wherein said sensor comprises a complementary metal-oxide semiconductor (CMOS) image sensor.
- 65. (Original) The system of claim 41, wherein said sensor comprises a charge-coupled device (CCD) image sensor.
- 66. (Original) The system of claim 41, wherein said luminosity information comprises gray-scale luminosity information, prior to being processed into a color image.
- 67. (Previously Presented) The system of claim 41, wherein said compressor module comprises a wavelet transform engine for applying a wavelet transform to each individual bit plane that comprises the luminosity information.
- 68. (Original) The system of claim 41, wherein said compressed luminosity information comprises a wavelet transformed and compressed luminosity record of the image recorded at the sensor.